

FULL ESTIMATED COST

0.21

0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,  
AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS,  
CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB,  
DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 14:47:56 ON 03 MAY 2006

68 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view  
search error messages that display as 0\* with SET DETAIL OFF.

=> periodate with ion and bioadhesive

2 FILE CAPLUS  
22 FILES SEARCHED...  
3 FILE IFIPAT  
44 FILES SEARCHED...  
48 FILES SEARCHED...  
3 FILE USPATFULL  
1 FILE USPAT2  
2 FILE WPIDS  
67 FILES SEARCHED...  
2 FILE WPINDEX

6 FILES HAVE ONE OR MORE ANSWERS, 68 FILES SEARCHED IN STNINDEX

L1 QUE PERIODATE WITH ION AND BIOADHESIVE

=> polyphenolic and bioadhesive

2 FILE AQUASCI  
2 FILE BIOENG  
4 FILE BIOSIS  
3 FILE BIOTECHABS  
3 FILE BIOTECHDS  
13 FILE CAPLUS  
1 FILE CEABA-VTB  
49 FILE DGENE  
1 FILE FSTA  
14 FILE IFIPAT  
3 FILE LIFESCI  
1 FILE MEDLINE  
2 FILE NTIS  
45 FILES SEARCHED...  
1 FILE PROMT  
2 FILE SCISEARCH  
2 FILE TOXCENTER  
55 FILE USPATFULL  
6 FILE USPAT2  
13 FILE WPIDS  
1 FILE WPIFV  
13 FILE WPINDEX

21 FILES HAVE ONE OR MORE ANSWERS, 68 FILES SEARCHED IN STNINDEX

L2 QUE POLYPHENOLIC AND BIOADHESIVE

=> drank

86 FILE ADISCTI  
2 FILE ADISINSIGHT  
47 FILE ADISNEWS  
220 FILE AGRICOLA  
8 FILE ANABSTR  
24 FILE AQUALINE  
32 FILE AQUASCI

111 FILE BIOENG  
 3128 FILE BIOSIS  
 2 FILE BIOTECHABS  
 2 FILE BIOTECHDS  
 114 FILE BIOTECHNO  
 1837 FILE CABA  
 1722 FILE CAPLUS  
 1 FILE CEABA-VTB  
 17 FILE CIN  
 1 FILE CONFSCI  
 16 FILE CROPU  
 65 FILE DDFU  
 318 FILE DISSABS  
 43 FILE DRUGMONOG2  
 614 FILE DRUGU  
 27 FILE EMBAL  
 3205 FILE EMBASE  
 944 FILE ESBIODBASE  
 249 FILE FOMAD  
 109 FILE FROSTI  
 158 FILE FSTA  
 142 FILE HEALSAFE  
 25 FILE IFIPAT  
 275 FILE JICST-EPLUS  
 652 FILE LIFESCI  
 3312 FILE MEDLINE  
 70 FILE NTIS  
 25 FILE NUTRACEUT  
 6 FILE OCEAN  
 1255 FILE PASCAL  
 3 FILE PHARMAML  
 13 FILE PHIN  
 3063 FILE PROMT  
 1977 FILE SCISEARCH  
 3459 FILE TOXCENTER  
 605 FILE USPATFULL  
 68 FILE USPAT2  
 51 FILE VETU  
 50 FILE WATER  
 65 FILES SEARCHED...  
 31 FILE WPIDS  
 31 FILE WPINDEX

48 FILES HAVE ONE OR MORE ANSWERS, 68 FILES SEARCHED IN STNINDEX

L3 QUE DRANK

=> polyphenolic (p) bioadhesive

0\* FILE ADISNEWS  
 0\* FILE ANTE  
 0\* FILE AQUALINE  
 2\* FILE BIOENG  
 3 FILE BIOSIS  
 3\* FILE BIOTECHABS  
 3\* FILE BIOTECHDS  
 0\* FILE BIOTECHNO  
 12 FILE CAPLUS  
 1\* FILE CEABA-VTB  
 0\* FILE CIN  
 49 FILE DGENE  
 0\* FILE ESBIODBASE  
 0\* FILE FOMAD  
 0\* FILE FOREGE  
 0\* FILE FROSTI

1\* FILE FSTA  
 14 FILE IFIPAT  
 0\* FILE KOSMET  
 2\* FILE NTIS  
 0\* FILE NUTRACEUT  
 46 FILES SEARCHED...  
 0\* FILE PASCAL  
 0\* FILE PHARMAML  
 1 FILE PROMT  
 1 FILE SCISEARCH  
 2 FILE TOXCENTER  
 44 FILE USPATFULL  
 2 FILE USPAT2  
 0\* FILE WATER  
 13 FILE WPIDS  
 1 FILE WPIFV  
 13 FILE WPINDEX

18 FILES HAVE ONE OR MORE ANSWERS, 68 FILES SEARCHED IN STNINDEX

L4 QUE POLYPHENOLIC (P) BIOADHESIVE

=> polyphenolic with bioadhesive

1 FILE BIOSIS  
 1 FILE CAPLUS  
 27 FILES SEARCHED...  
 48 FILES SEARCHED...  
 6 FILE USPATFULL

3 FILES HAVE ONE OR MORE ANSWERS, 68 FILES SEARCHED IN STNINDEX

L5 QUE POLYPHENOLIC WITH BIOADHESIVE

=> polyphenolic (p) bioadhesive

0\* FILE ADISNEWS  
 0\* FILE ANTE  
 0\* FILE AQUALINE  
 2\* FILE BIOENG  
 3 FILE BIOSIS  
 3\* FILE BIOTECHABS  
 3\* FILE BIOTECHDS  
 0\* FILE BIOTECHNO  
 12 FILE CAPLUS  
 1\* FILE CEABA-VTB  
 0\* FILE CIN  
 49 FILE DGENE  
 0\* FILE ESBIODBASE  
 0\* FILE FOMAD  
 0\* FILE FOREGE  
 0\* FILE FROSTI  
 1\* FILE FSTA  
 14 FILE IFIPAT  
 0\* FILE KOSMET  
 2\* FILE NTIS  
 0\* FILE NUTRACEUT  
 46 FILES SEARCHED...  
 0\* FILE PASCAL  
 0\* FILE PHARMAML  
 1 FILE PROMT  
 1 FILE SCISEARCH  
 2 FILE TOXCENTER  
 44 FILE USPATFULL  
 2 FILE USPAT2  
 0\* FILE WATER

13 FILE WPIDS  
1 FILE WPIFV  
13 FILE WPINDEX

18 FILES HAVE ONE OR MORE ANSWERS, 68 FILES SEARCHED IN STNINDEX

L6 QUE POLYPHENOLIC (P) BIOADHESIVE

=> d rank

F1	49	DGENE
F2	44	USPATFULL
F3	14	IFIPAT
F4	13	WPIDS
F5	13	WPINDEX
F6	12	CAPLUS
F7	3	BIOSIS
F8	3*	BIOTECHABS
F9	3*	BIOTECHDS
F10	2	TOXCENTER
F11	2	USPAT2
F12	2*	BIOENG
F13	2*	NTIS
F14	1	PROMT
F15	1	SCISEARCH
F16	1	WPIFV
F17	1*	CEABA-VTB
F18	1*	FSTA

=> file caplus biosis biotechabs toxcenter scisearch

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.32	7.53

FILE 'CAPLUS' ENTERED AT 14:55:04 ON 03 MAY 2006  
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FILE 'BIOSIS' ENTERED AT 14:55:04 ON 03 MAY 2006  
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FILE 'BIOTECHABS' ACCESS NOT AUTHORIZED

FILE 'TOXCENTER' ENTERED AT 14:55:04 ON 03 MAY 2006  
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Copyright (c) 2006 The Thomson Corporation

=> polyphenolic (p) bioadhesive

L7 18 POLYPHENOLIC (P) BIOADHESIVE

=> dup remove l7

PROCESSING COMPLETED FOR L7

L8 15 DUP REMOVE L7 (3 DUPLICATES REMOVED)

=> d ti 1-15

L8 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Improved coating comprising a **bioadhesive polyphenolic**  
protein derived from a byssus-forming mussel

L8 ANSWER 2 OF 15 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI Use of a **bioadhesive** composition comprising a **polyphenolic** protein.

L8 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Use of an acidic aqueous solution of a **bioadhesive** **polyphenolic** protein as an adhesive or coating

L8 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Method for attaching two surfaces to each other using a **bioadhesive** **polyphenolic** protein and periodate ions.

L8 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Method and kit providing **bioadhesive** binding or coating with **polyphenolic** mussel proteins

L8 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1  
 TI New use of a **bioadhesive** composition comprising a **polyphenolic** protein in ophthalmic therapy

L8 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Conjugated bioadhesives

L8 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 2  
 TI Adhesives derived from **bioadhesive** **polyphenolic** proteins

L8 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Preparation of polymers containing dihydroxyphenylalanine and their adhesiveness

L8 ANSWER 10 OF 15 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 TI DECAPEPTIDES PRODUCED FROM **BIOADHESIVE POLYPHENOLIC** PROTEINS US PATENT-4808702. FEBRUARY 28 1989.

L8 ANSWER 11 OF 15 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 TI CHARACTERISTICS OF THE **BIOADHESIVE POLYPHENOLIC** PROTEINS ISOLATED FROM CHILEAN MYTILIDS

L8 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 3  
 TI Adhesives derived from **bioadhesive** **polyphenolic** proteins

L8 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Method for making DOPA-containing bioadhesive proteins from tyrosine-containing proteins

L8 ANSWER 14 OF 15 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 TI DECAPEPTIDES PRODUCED FROM **BIOADHESIVE POLYPHENOLIC** PROTEINS US PATENT-4687740. AUGUST 18 1987.

L8 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Decapeptides produced from **bioadhesive** **polyphenolic** proteins

=> d ab bib 15, 14, 13, 12, 8, , 4, 2, 1

L8 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN  
 AB The decapeptides Ala-Lys-Pro/Hyp-Ser/Thr-Tyr/Dopa-Pro/Hyp-Pro/Hyp-Ser/Thr-Tyr/Dopa-Lys (I), useful in the preparation of water-resistant adhesives, are isolated from **bioadhesive**, **polyphenolic** proteins from

mussels. Thus, **polyphenolic** proteins isolated from the phenol glands of *Mytilus edulis* were digested with trypsin and the products were chromatographed on Sephadex to give I (mol. weight .apprx.1400). I was polymerized with glutaraldehyde in the presence of AcONa (pH 7) at room

temperature

AN 1986:444415 CAPLUS

DN 105:44415

TI Decapeptides produced from **bioadhesive polyphenolic** proteins

IN Waite, J. Herbert

PA University of Connecticut, USA

SO U.S., 7 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 4585585	A	19860429	US 1984-587132	19840307
	US 4687740	A	19870818	US 1986-820143	19860121
	US 4808702	A	19890228	US 1987-55450	19870601
PRAI	US 1984-587132	A3	19840307		
	US 1986-820143	A3	19860121		

L8 ANSWER 14 OF 15 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

AN 1987:407292 BIOSIS

DN PREV198733076970; BR33:76970

TI DECAPEPTIDES PRODUCED FROM **BIOADHESIVE POLYPHENOLIC** PROTEINS US PATENT-4687740. AUGUST 18 1987.

AU WAITE J H [Inventor, Reprint author]

CS COLLINSVILLE, CONN, USA

ASSIGNEE: UNIVERSITY OF CONNECTICUT RESEARCH AND DEVELOPMENT CORP

PI US 4687740 19870818

SO Official Gazette of the United States Patent and Trademark Office Patents, (1987) Vol. 1081, No. 3, pp. 1475-1476.

CODEN: OGUPE7. ISSN: 0098-1133.

DT Patent

FS BR

LA ENGLISH

ED Entered STN: 27 Sep 1987

Last Updated on STN: 27 Sep 1987

L8 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

AB **Bioadhesive polyphenolic** proteins containing DOPA residues are formed from protein precursors containing tyrosine residues by preparing a tyrosine-containing protein and reacting it with a tyrosinase enzyme at pH .apprx.4.5-8 and .apprx.20-37° at an enzyme-to-protein ratio of .apprx.5-50 units enzyme/μg protein. Ascorbic acid can be added to retard conversion of DOPA residues to quinones. **Bioadhesive** bond strength and rate of tyrosine to DOPA conversion can be manipulated by any variable (e.g., pH, temperature, and use of oxidation and reduction agents)

which affects the rate of enzyme reaction.

AN 1988:73840 CAPLUS

DN 108:73840

TI Method for making DOPA-containing bioadhesive proteins from tyrosine-containing proteins

IN Benedict, Christine V.; Picciano, Paul T.

PA Bio-Polymers, Inc., USA

SO Eur. Pat. Appl., 24 pp.

CODEN: EPXXDW

DT Patent

LA English

## FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 242656	A2	19871028	EP 1987-104853	19870402
	EP 242656	A3	19890419		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	DK 8701639	A	19871026	DK 1987-1639	19870331
	FI 8701726	A	19871026	FI 1987-1726	19870421
	NO 8701664	A	19871026	NO 1987-1664	19870422
	AU 8771887	A1	19871029	AU 1987-71887	19870423
	AU 597353	B2	19900531		
	JP 63028399	A2	19880206	JP 1987-100208	19870424
PRAI	US 1986-856594	A	19860425		

L8 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 3

AB Adhesive or coating formulations useful in biomedical and other applications comprised (A) a **bioadhesive polyphenolic** protein component having 5-99 weight% of a proteinaceous substance comprising 1-1000 I (R = H, Me; X = H, OH) units, (B) crosslinking agent 0.1-40, (C)  $\geq 1$  surfactant 0-90, and (D) compatible filler 0-50%. I was extracted from marine mussel feet in 45% purity, and further purification chromatog. Bovine corneas were scraped and perforated, and chromatog. purified. I 10  $\mu$ L (5.8 mg/mL in water) and catechol oxidase 0.94  $\mu$ L (648  $\mu$ /mL in 0.1 M phosphate buffer) were mixed and applied in the area of the perforation; a HYPAN disk was applied and smoothed over the cornea. After 5-20 min curing, the eye was pressurized; the average pressure which the eye sustained was > 93 mm Hg. Thus I is useful for sealing ophthalmic incisions and perforation using an alloplastic material.

AN 1988:516094 CAPLUS

DN 109:116094

TI Adhesives derived from **bioadhesive polyphenolic** proteins

IN Benedict, Christine V.; Picciano, Paul T.

PA Bio-Polymers, Inc., USA

SO Eur. Pat. Appl., 47 pp.

CODEN: EPXXDW

DT Patent

LA English

## FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 244688	A2	19871111	EP 1987-105775	19870418
	EP 244688	A3	19881102		
	EP 244688	B1	19911023		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	AT 68813	E	19911115	AT 1987-105775	19870418
	US 5015677	A	19910514	US 1988-213439	19880627
PRAI	US 1986-856597	A	19860425		
	US 1987-34078	A	19870402		
	US 1988-213439		19880627		
	EP 1987-105775	A	19870418		

L8 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 2

AB A water-impervious adhesive formulation comprises: (a) a **bioadhesive polyphenolic** protein containing 50-150 peptide repeating units I, II, and III (X = H, OH; R = H, Me); (b) a crosslinking agent, such as mushroom tyrosinase; (c) a surfactant, such as SDS or Na dodecylbenzenesulfonate; and (d) a filler, such as collagen or hyaluronic acid. The **polyphenolic** protein is derived from marine mussels, such as *Mytilus edulis*. The adhesive formulation is usable in orthopedic repair, eye surgery, as a dental adhesive, as an antifouling underwater coating, as an antifungal plant coating, etc. A formulation was made of 65% **polyphenolic** protein (5.5 mg/mL in water), 35% collagen slurry [25% weight/weight in 0.1M phosphate buffer (pH 7)], and 6000 units

mushroom tyrosinase/mg. The formation was used in bonding a surgically severed bovine meniscus. The bond had a tensile strength of 21.2 g/cm2.

AN 1993:66922 CAPLUS  
Correction of: 1991:542382  
DN 118:66922  
Correction of: 115:142382  
TI Adhesives derived from **bioadhesive polyphenolic**  
proteins  
IN Benedict, Christine V.; Picciano, Paul T.  
PA Bio-Polymers, Inc., USA  
SO U.S., 12 pp. Cont.-in-part of U.S. Ser. No. 34,078, abandoned.  
CODEN: USXXAM  
DT Patent  
LA English  
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 5015677	A	19910514	US 1988-213439	19880627
	EP 244688	A2	19871111	EP 1987-105775	19870418
	EP 244688	A3	19881102		
	EP 244688	B1	19911023		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	ES 2025572	T3	19920401	ES 1987-105775	19870418
	FI 8701727	A	19871026	FI 1987-1727	19870421
	DK 8702051	A	19871026	DK 1987-2051	19870422
	NO 8701663	A	19871026	NO 1987-1663	19870422
	CA 1307081	A1	19920908	CA 1987-535246	19870422
	AU 8771886	A1	19871029	AU 1987-71886	19870423
	JP 63023670	A2	19880130	JP 1987-100207	19870424
	AU 605930	B2	19910124	AU 1988-24972	19881109
	AU 8824972	A1	19890323		
PRAI	US 1986-856597	B2	19860425		
	US 1987-34078	B2	19870402		
	US 1988-213439		19880627		

L8 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN  
AB The invention can be provided as a kit of parts comprising the MAP-solution, a preparation comprising the periodate ions and optionally a device to apply the compns. of the invention to surfaces that are to be attached to each other or coated. Thus, a composition containing MAP proteins 20 mg/mL, and NaIO4

6% had an adhesive strength of 90 g.

AN 2003:777643 CAPLUS  
DN 139:281323  
TI Method for attaching two surfaces to each other using a  
**bioadhesive polyphenolic** protein and periodate ions.  
IN Qvist, Magnus  
PA Swed.  
SO PCT Int. Appl., 19 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2003080137	A1	20031002	WO 2003-SE492	20030325
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,				



FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003216019	A1	20031008	AU 2003-216019	20030325
EP 1490122	A1	20041229	EP 2003-745063	20030325
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005224175	A1	20051013	US 2004-509401	20040924
PRAI SE 2002-924	A	20020326		
US 2002-374129P	P	20020422		
WO 2003-SE492	W	20030325		

RE.CNT 5      THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 15 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 AB A non-irritating, non-allergenic and non-toxic **bioadhesive**  
 composition can be obtained by providing a **bioadhesive**  
 composition including a **polyphenolic** protein derived from  
 byssus-forming mussels and, b) a polymer comprising carbohydrate groups.  
 The **bioadhesive** composition does not contain any enzyme or  
 chemical cross-linking agent. Optionally, the composition may contain an  
 oxidising agent and/or a filler protein. Preferably, the composition is  
 provided as a kit of at least two parts, namely the **polyphenolic**  
 protein and the polymer comprising carbohydrate groups, respectively. The  
 composition is especially suitable as an adhesive in ophthalmic therapy.

AN 2006:133447 BIOSIS  
 DN PREV200600143767  
 TI Use of a **bioadhesive** composition comprising a  
**polyphenolic** protein.  
 AU Qvist, Magnus [Inventor]; Hansson, Hans Arne [Inventor]  
 CS Alingsås, Sweden  
 ASSIGNEE: BioPolymer Products of Sweden AB  
 PI US 06867188 20050315  
 SO Official Gazette of the United States Patent and Trademark Office Patents,  
 (MAR 15 2005)  
 CODEN: OGUPE7. ISSN: 0098-1133.  
 DT Patent  
 LA English  
 ED Entered STN: 22 Feb 2006  
 Last Updated on STN: 22 Feb 2006

L8 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN  
 AB An improved coating for biomedical surfaces comprises a  
**bioadhesive polyphenolic** protein derived from a byssus-  
 forming mussel, e.g., Mefp-1 (Mytilus edulis foot protein- 1). The  
 coating reduces the immunogenicity of the coated biomedical surface. The  
**bioadhesive polyphenolic** protein may be oxidized or non-  
 oxidized dependent on whether a further layer is to be coated on the  
 surface. The further layer may comprise heparin, hyaluronic acid or  
 fibrinogen. The low immunoreactivity of Mefp-1 as a coating was compared  
 to other surfaces commonly-used in biomedical material applications. The  
 binding of anti-complement factor 3 antibodies was used as a measure of  
 the immune response provoked by certain materials. The obtained data  
 showed the low immunoreactivity of Mefp-1 as compared to other materials  
 used in biomedical applications. A heparin coating induced low  
 immunoreactivity when its ability to coat a surface is assisted by a  
 Mefp-1 layer and will help improve treatment and research in this field.

AN 2006:342820 CAPLUS  
 DN 144:357814  
 TI Improved coating comprising a **bioadhesive polyphenolic**  
 protein derived from a byssus-forming mussel  
 IN Qvist, Magnus  
 PA Bio Polymer Products of Sweden AB, Swed.  
 SO PCT Int. Appl., 39 pp.  
 CODEN: PIXXD2

DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	WO 2006038866	A1	20060413	WO 2005-SE1458	20051003
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRAI	SE 2004-2379	A	20041001		
	US 2004-522434P	P	20041001		
RE.CNT	11	THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT			

=> periodate with ion and polyphenolic  
L9 2 PERIODATE WITH ION AND POLYPHENOLIC

=> d ab bib

L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN  
AB An improved coating for biomedical surfaces comprises a bioadhesive **polyphenolic** protein derived from a byssus-forming mussel, e.g., Mefp-1 (Mytilus edulis foot protein- 1). The coating reduces the immunogenicity of the coated biomedical surface. The bioadhesive **polyphenolic** protein may be oxidized or non- oxidized dependent on whether a further layer is to be coated on the surface. The further layer may comprise heparin, hyaluronic acid or fibrinogen. The low immunoreactivity of Mefp-1 as a coating was compared to other surfaces commonly-used in biomedical material applications. The binding of anti-complement factor 3 antibodies was used as a measure of the immune response provoked by certain materials. The obtained data showed the low immunoreactivity of Mefp-1 as compared to other materials used in biomedical applications. A heparin coating induced low immunoreactivity when its ability to coat a surface is assisted by a Mefp-1 layer and will help improve treatment and research in this field.

AN 2006:342820 CAPLUS  
DN 144:357814  
TI Improved coating comprising a bioadhesive **polyphenolic** protein derived from a byssus-forming mussel  
IN Qvist, Magnus  
PA Bio Polymer Products of Sweden AB, Swed.  
SO PCT Int. Appl., 39 pp.  
CODEN: PIXXD2

DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2006038866	A1	20060413	WO 2005-SE1458	20051003
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG,				

SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,  
 YU, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,  
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM

PRAI SE 2004-2379 A 20041001

US 2004-522434P P 20041001

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d ab bib 2

L9 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STM

AB The invention can be provided as a kit of parts comprising the MAP-solution,  
 a preparation comprising the **periodate ions** and optionally  
 a device to apply the compns. of the invention to surfaces that are to be  
 attached to each other or coated. Thus, a composition containing MAP proteins

20 mg/mL, and NaIO<sub>4</sub> 6% had an adhesive strength of 90 g.

AN 2003:777643 CAPLUS

DN 139:281323

TI Method for attaching two surfaces to each other using a bioadhesive  
**polyphenolic protein and periodate ions.**

IN Qvist, Magnus

PA Swed.

SO PCT Int. Appl., 19 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003080137	A1	20031002	WO 2003-SE492	20030325
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003216019	A1	20031008	AU 2003-216019	20030325
	EP 1490122	A1	20041229	EP 2003-745063	20030325
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
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PRAI	SE 2002-924	A	20020326		
	US 2002-374129P	P	20020422		
	WO 2003-SE492	W	20030325		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT